



European Network of
Transmission System Operators
for Electricity

RESOURCE CAPACITY REGISTRY TOOL IMPLEMENTATION GUIDE

2021-06-01

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VERSION 1.1

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22 absolute requirement of the specification.
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24 absolute prohibition of the specification.
- 25 • **SHOULD:** This word, or the adjective "RECOMMENDED", means that there may exist valid
26 reasons in particular circumstances to ignore a particular item, but the full implications must
27 be understood and carefully weighed before choosing a different course.
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29 exist valid reasons in particular circumstances when the particular behaviour is acceptable
30 or even useful, but the full implications should be understood and the case carefully weighed
31 before implementing any behaviour described with this label.
- 32 • **MAY:** This word, or the adjective "OPTIONAL", means that an item is truly optional.

Revision History

Version	Release	Date	Paragraph	Comments
0	1	2020-09-16		First draft of the Resource Capacity Registry Tool Implementation guide.
0	2	2020-11-25		Comments from CIM EG were considered.
1	0	2020-12-15		Approved by MC.
1	1	2021-06-01		<p>Some amendments were considered during the implementation of the registry.</p> <ul style="list-style-type: none"> • CO2 emissions and metering point now are optional • Market type codes (A08: Market wide resource capacity mechanism, A09: Strategic reserve resource capacity mechanism, A10: Other resource capacity mechanism) are also optional for allocated entry capacity. • Added two optional initial registration dateAndOrTime a and registration_DateAndOrTime attributes linked to Timeseries • Market participation_marketObjectStatus.status attribute was splitted in PrimaryMarketParticipation and secondaryMarket participation status attributes. • An optional ClearanceNumber_Name attribute was added to the Timeseries • Existing PSRType attribute was renamed to technology_PSRType • A new Fuel class was linked to the Unit class with cardinality 0..* • meteringPoint_AggregateNode.mRID was replaced by MarketEvaluationPoint.mRID • Adjustments to align the dependency tables with the new attributes requested by the project. <p>Approved by MC.</p>

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93 1 Scope

94 The objective of the resource capacity registry tool implementation guide is to make it possible
95 for software vendors to develop an IT application for TSOs and other parties that allow them to
96 exchange information for the resource capacity registry tool process.

97 The implementation guide is one of the building blocks for using UML (Unified Modelling
98 Language) based techniques in defining processes and messages for interchange between
99 actors in the electrical industry in Europe.

100 This guide provides a standard for enabling a uniform layout for exchanging resource capacity
101 mechanism unit data between different parties and the resource capacity registry tool. The
102 implementation guide is developed for the harmonisation of the underlying data exchange
103 process. The implementation guide refers to information models based on the European style
104 market profile (ESMP), IEC 62325-351. In particular, the IEC 62325-450 methodology was
105 applied to develop the contextual and assembly models

106 2 References

107 2.1 Normative references

108 The following documents, in whole or in part, are normatively referenced in this document and
109 are indispensable for its application. For dated references, only the edition cited applies. For
110 undated references, the latest edition of the referenced document (including any amendments)
111 applies.

112 • [IEC 62325-301:2018, Framework for energy market communications – Part 301:
113 Common information model \(CIM\) extensions for markets;](#)

114 • [IEC 62325-351:2016, Framework for energy market communications – Part 351: CIM
115 European market model exchange profile;](#)

116 • [IEC 62325-450:2013, Framework for energy market communications – Part 450: Profile
117 and context modelling rules;](#)

118 • [IEC 62325-451-1:2017, Framework for energy market communications – Part 451-1:
119 Acknowledgement business process and contextual model for CIM European market;](#)

120 • [IEC 62325-451-5, Framework for energy market communications - Part 451-5: Problem
121 statement and status request business processes, contextual and assembly models for
122 European market;](#)

123

124 2.2 Other references

125 • [The Harmonised Electricity Market Role Model \(HRM\);](#)

126 • Resource Capacity Market Unit (RCMU) document UML model and schema.

127 • [Article 26 of the Regulation \(EU\) 2019/943 of the European Parliament and of Council
128 of 5 June 2019 on the internal market for electricity.](#)

129 • Business requirements specification of the Capacity Registry Tool process approved by
130 ENTSO-E Market Committee on July 10th, 2020

131

132 **3 Terms and definitions**

133 **Delivery Period** means the period set in the CM Contract during which the resource capacity
134 obligation applies. [source: BRS]

135 **Eligibility** means the compliance with technical performance as required by the resource
136 capacity mechanism in which the RCMU (resource provider) intends to participate. [source:
137 BRS]

138 **Eligibility period** means the period for which certain RCMU hold eligibility for specific CM.
139 [source: BRS]

140 **Foreign Capacity** means a resource capacity located in a Member State different from the
141 Member State applying the resource capacity mechanism. [source: BRS]

142 **Market Information Aggregator (MIA)** means a party that provides market related information
143 that has been compiled from the figures supplied by different actors in the market. This
144 information may also be published or distributed for general use. [source: HRM]

145 **Maximum Entry Capacity** means the maximum allowed foreign resource capacity (expressed
146 in MW) considered between two Member States that can participate in a resource capacity
147 mechanism during a certain Delivery Period. [source: BRS]

148 **Measurement Point** a location within the grid, a piece of equipment or an installation where
149 measurement of the flow of electricity is performed. The flow related to this measurement point
150 will be used to calculate the resource capacity delivered by the RCMU. The RCMU can be
151 assigned with multiple measurement points. [source: RCRT PG]

152 **Member State (MS)** is a state that is a member of the European Union. [source: BRS]

153 **Party administrator** means a party responsible for maintaining party characteristics for the
154 energy sector. [source: HRM]

155 **Primary market** is where RCMU resource entry capacity or resource capacity obligation is
156 determined for the first time. [source: RCRT PG]

157 **Registry User** means a person having access to the Registry. [source: BRS]

158 **Resource Capacity Market Unit (RCMU)** is the single unit or group of aggregated units used
159 by the resource provider to fulfil its capacity commitment and upon which availability is checked.
160 [source: BRS, defined as Capacity Market Unit (RCMU)]

161 **Resource Capacity Mechanism (RCM)** means a temporary measure to ensure the
162 achievement of the necessary level of resource adequacy by remunerating resources for their
163 availability, excluding measures relating to ancillary services or congestion management.
164 [source: BRS, defined as capacity mechanism]

165 **Resource Capacity Mechanism Operator (RCMO)** is the party responsible to operate the
166 resource capacity mechanism in a member state. It can either be the TSO or an independent
167 party. [source: ESMP SG. In BRS is known as Capacity Mechanism operator (CMO)]

168 **Resource Capacity Obligation** is resource provider's obligation to guarantee, during delivery
169 periods, readiness to deliver specified electrical power to the system through a resource
170 capacity market unit and to supply specified electrical power to the system during stress
171 periods. [source: RCRT PG, defined as capacity obligation]

172 **Resource Capacity Registry Tool (RCRT)** is a common digital platform that provides free,
173 continuous access for the resource providers and resource capacity mechanism's operators
174 from all Member States. Registry itself is open to all eligible resource providers, the systems
175 implementing resource capacity mechanisms and their transmission system operators, and
176 maintained by ENTISO-E. [source: BRS]

177

178 **Resource Entry Capacity** means the resource capacity, expressed in MW, that can be
179 allocated to eligible foreign resource capacity (RCMU) for participation in a resource capacity
180 mechanism. Its total amount can never exceed the maximum resource entry capacity. [source:
181 BRS, defined as entry capacity]

182 **Resource Provider** means a role that manages a resource and provides
183 production/consumption schedules for it, if required. [source: HRM].

184 **Secondary market** is where RCMU resource entry capacity or resource capacity obligation is
185 traded between two resource providers. [source: RCRT PG]

186 **System Operator (SO)** means a party responsible for operating, ensuring the maintenance of
187 and, if necessary, developing the system in a given area and, where applicable, its
188 interconnections with other systems, and for ensuring the long-term ability of the system to
189 meet reasonable demands for the distribution or transmission of electricity. [source: HRM]

190

191 **4 The Resource Capacity Registry Tool Business Process**

192

193 Resource capacity registry tool design is based on Methodologies for cross-border participation
194 in resource capacity mechanisms, common rules and terms of reference in accordance with
195 Article 26 of the Regulation (EU) 2019/943 of the European Parliament and of the Council of 5
196 June 2019 on the internal market for electricity.

197 Following processes are enabled by resource capacity registry tool, followed by respective e-
198 mail notifications:

- 199 • Basic RCMU registration
- 200 • RCMU eligibility confirmation
- 201 • RCMU allocated entry capacity submission
- 202 • RCMU capacity obligation submission
- 203 • RCMU data retrieval from resource capacity registry tool database
- 204 • Maximum resource entry capacity announcement
- 205 • Report generation for ACER and NRAs
- 206 • System stress event announcement
- 207 • RCMU data management

208

209 Management of data stored within resource capacity registry database can be performed either
210 via resource capacity registry tool GUI or by uploading relevant XML files. Either way, data
211 transfer is handled by data flow gateway where appropriate technical validation takes place
212 prior to business validation inside resource capacity registry tool itself.

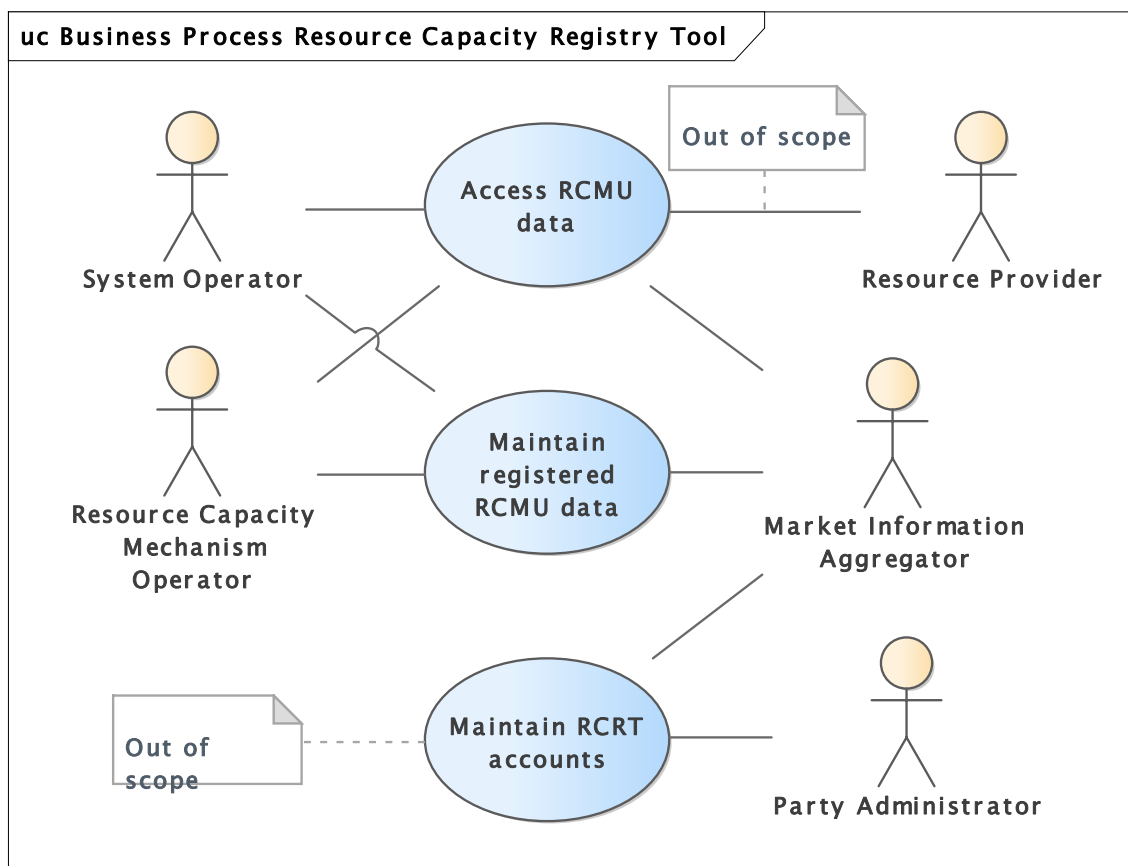
213

214 Active registry users are TSOs, RCMOs and administrators (ENTSO-E), while resource provider
215 has passive role and is able to see its own data only.

216

217

218 4.1 Use cases



219

220

221

Figure 1 - Use Case diagram

222 Table 1 gives a list of roles involved in the Resource Capacity Registry business process.

223

224

Table 1 - Role labels and descriptions

Role Label	Role Description
System Operator (SO)	Within this business process, SO is in charge of registering RCMU data in the registry. Apart from that he is able to access and retrieve RCMU data from the registry. This role is performed by the TSO.
Resource Capacity Mechanism Operator (RCMO)	Within this business process, RCMO accesses and retrieves RCMU data from the registry. RCMO in whose the RCMU intends to participate has to review the application and may also ask for additional requirements RCMO in whose the RCMU intends to participate has to enter the RCM for which the RCMU is eligible to participate along with its eligibility period. Finally, RCMO that is applying foreign resource capacity submits resource capacity obligations and delivery periods for each RCM. The role is performed by the CMO.
Market Information Aggregator (MIA)	MIA stores and administrates all the RCMU information. It also maintains the user accounts. This role is performed by the RCRT .
Party Administrator	The party administrator is responsible for the maintenance of the accounts of the resource capacity registry tool. (Out of scope)
Resource Provider	Within this business process is responsible for one or several RCMUs for the resource capacity mechanism processes. This role is performed by the resource capacity provider.

225

226

227 Table 2 gives a list of use cases for the Resource Capacity Registry Tool.

228

229

Table 2 – Resource Capacity Registry Tool use cases

Use case label	Roles involved	Action descriptions and assertions
Maintain registered RCMU data	SO, RCMO, MIA	SO requests to the MIA to register the RCMU. The RCMO can request the MIA to add data (allocated entry resource capacity data or resource capacity obligations data) to the registered RCMUs.
Access RCMU data	SO, RCMO, MIA, RP	SO and RCMO can also retrieve RCMU data from MIA. RP can only access data (in view mode) via user interface.
Maintain RCRT accounts	MIA, Party administrator	The RCRTA can request the creation of registry accounts or get the list of registry accounts from the MIA (out of scope of this IG)

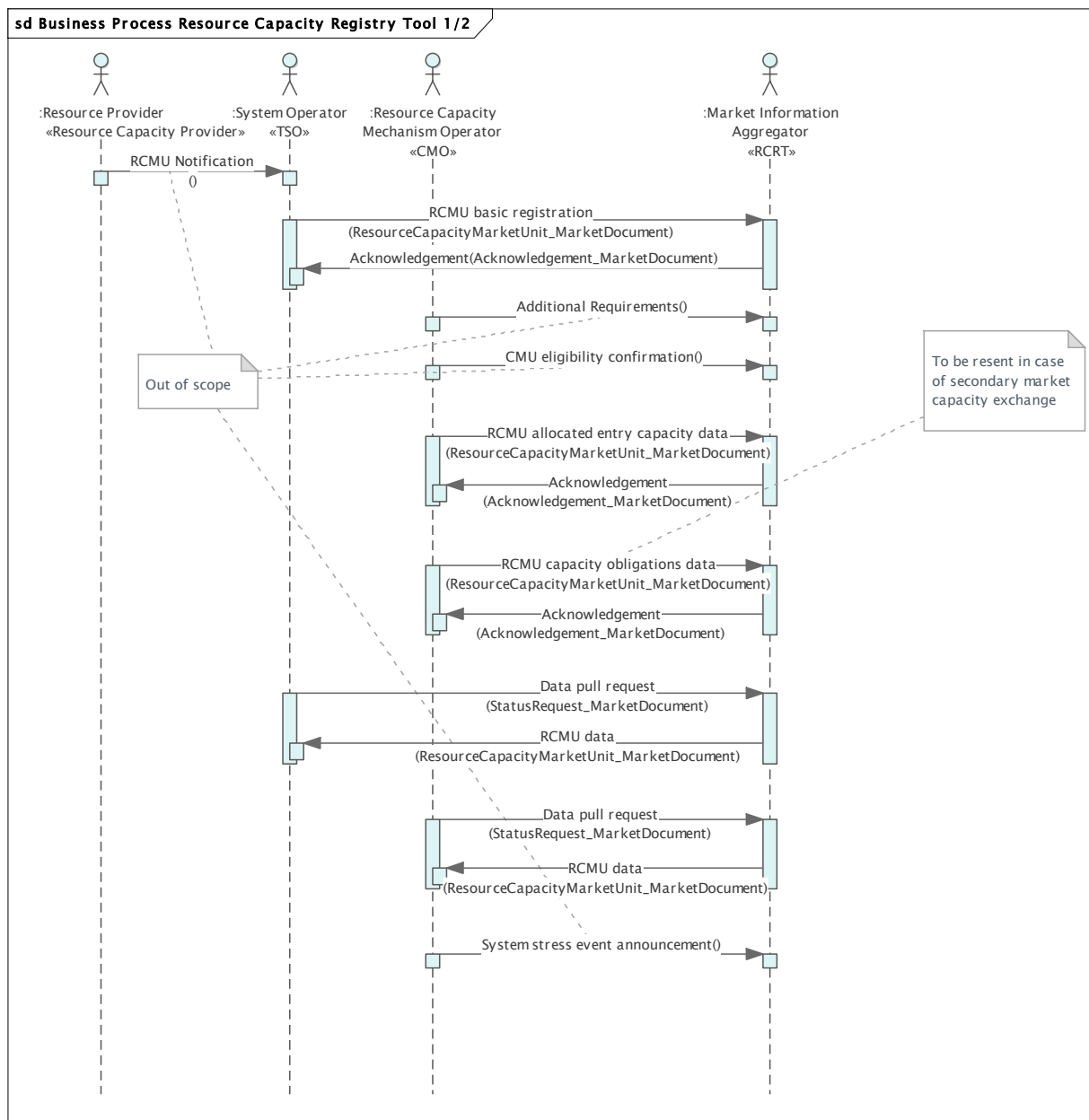
230

231

232 4.2 Document exchange processes

233 4.2.1 General overview of sequence diagram 1/2

234 Next figures show a general sequence diagram of the document exchange processes.



235

236

Figure 2 - Sequence diagram 1/2

237 The use cases 'Access RCMU data' and 'Maintain registered RCMU data' are supported by the
238 following document exchanges:

239 **4.2.1.1 Acknowledgement – Acknowledgement_MarketDocument**

240 All received documents must be acknowledged with an acknowledgment document, IEC 62325-
241 451-1, in a syntactic and business/semantic way by the different parties.

242 **4.2.1.2 RCMU notification – (out of scope)**

243 In order for one of his RCMU to participate in a foreign resource capacity mechanism, the
244 Resource Provider must initiate contact beforehand with the SO responsible of the area within
245 which the RCMU is located. For each RCMU, the Resource Provider must deliver the following
246 data:

- 247 • Unique identifier, preferably EIC-W code of the RCMU.
- 248 • Corporate credentials;
- 249 • Facility address;
- 250 • Resource Capacity and aggregation;
- 251 • Technology type and fuel;
- 252 • Metering points;
- 253 • Network operator defined with EIC-X code;
- 254 • RCMO of Member State where RCMU is located defined with EIC-X code;

255 Additionally, following information must be included in registration request:

- 256 • List of XB Member States in whose RCMs RCMU wants to participate in.

257 Along with RCMU data, Resource Provider shall deliver its own data containing:

- 258 • EIC-X code;
- 259 • Full company name;
- 260 • Main notification email.

261 The concerned SO will then check that all the necessary data have been received and are
262 correct. If not, it will inform the Resource Provider through the Main Notification Email. Main
263 notification email is email to which capacity provider will receive notifications if it didn't request
264 any account creation in the past. This is especially important in case RCMUs of resource
265 capacity provider are registered for the first time

266 If everything is correct, the SO will perform the RCMU basic registration

267

271 **4.2.1.3 RCMU Basic Registration– ResourceCapacityMarketUnit_MarketDocument**

272 After he received and checked all necessary data send by the Resource Provider, the SO will
273 forward them to the resource capacity registry tool to perform the RCMU basic registration
274 thanks to the ResourceCapacityMarketUnit_MarketDocument (or manually via Registry web UI).

275 The RCRT will then perform technical and business validation, evaluating if the RCMU basic
276 registration is correct. A notification e-mail will then be sent to the Resource Provider and the
277 RCMO in whose the RCMU intend to participate with the result.

278

280 **4.2.1.4 RCMU eligibility confirmation (Out of scope)**

281 The RCMO in whose the RCMU intends to participate has to review the application and may
282 also ask for additional requirements.

283

284 If additional requirements are necessary, a notification with additional requirements will be sent
285 to check responsible party. This responsible party has to perform specific CMU data validation
286 against requirements set by RCMO in whose RCMU wants to participate in, in order to grant
287 eligibility for RCMU. This party can be resource provider, SO where CMU is located or RCMO
288 where CMU is located. Afterwards check responsible party must send additional requirements
289 verification results back to RCRT.

290

291 Once the verification have been performed by the RCMO, the RCRT is updated by the SO or
292 RCMO and a notification email is sent to the RCMO who asked for the additional requirement.
293

294 In any case, the RCMO in whose the RCMU intends to participate then has to enter the RCM
295 for which the RCMU is eligible to participate along with its eligibility period. Following this, a
296 notification email is send to all subscribed parties.

297

298 **4.2.1.5 RCMU allocated entry capacity data –**
299 **ResourceCapacityMarketUnit_MarketDocument**

300 Allocated resource entry capacity market activities are out of the Registry scope.

301

302 Once the process of allocating resource entry capacity for foreign resource capacity is closed
303 and allocated resource entry capacity per each RCMU is determined, RCMO that is applying
304 foreign resource capacity submits allocated resource entry capacity for each RCM type per
305 each RCMU that gained entry capacity after the closure of entry capacity allocation process
306 using the ResourceCapacityMarketUnit_MarketDocument (or manually via the Registry web UI).
307

308 Technical and business check are performed by the RCRT prior to the sending of an ACK with
309 the result of validation.

310

311 **4.2.1.6 RCMU capacity obligations data –**
312 **ResourceCapacityMarketUnit_MarketDocument**

313 All market activities regarding resource capacity obligations are out of the Registry scope.

314

315 Once auction for foreign resource capacity is closed and resource capacity obligations with
316 delivery periods per each RCMU are determined, RCMO that is applying foreign resource
317 capacity submits resource capacity obligations and delivery periods for each RCM type per
318 each RCMU that gained obligation after the market closure using the
319 ResourceCapacityMarketUnit_MarketDocument (or manually via the Registry web UI)
320

321 Technical and business check are performed by the RCRT prior to the sending of an ACK with
322 the result of validation

323

324

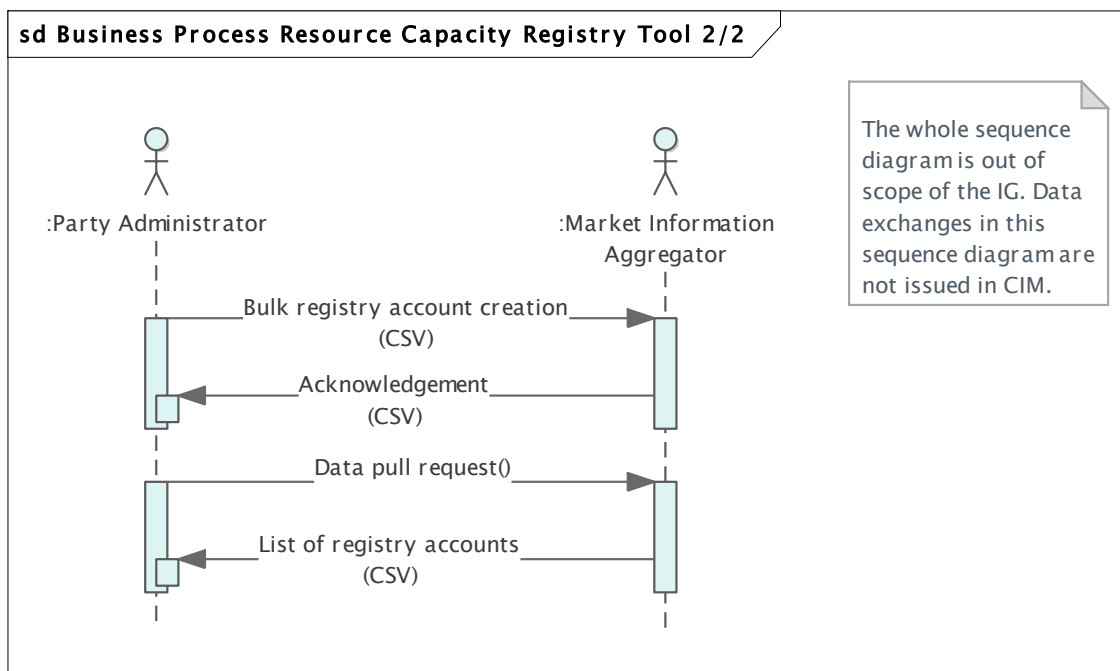
325 **4.2.1.7 Data pull request – StatusRequest_MarketDocument**

326 A Status Request Document contains a list of key-value pairs. Each key-value pair consists of
327 the fields attribute and attributeValue. These pairs of attribute and attributeValue will capture
328 the selection criteria for the registered RCMU data.

329

330

331 **4.2.2 General overview of sequence diagram 2/2 (Out of scope)**



332

Figure 3 - Sequence diagram 2/2

333

334

335 In order to perform simultaneous creation of multiple new resource capacity registry tool
336 accounts, Party Administrator shall be able to fill respective CSV file containing details of
337 account necessary to create new account.

338 Once uploaded, CSV file is validated, and result of validation is sent in form of acknowledgment.
339 If validation was successful, new accounts will be created in resource capacity registry tool .

340 Party Administrator shall also have an option to retrieve all existing accounts from resource
341 capacity registry tool by sending appropriate pull request. List of accounts is also provided in
342 CSV format. All data exchanges in the sequence diagram above are out of scope because they
343 are not issued in CIM.
344

345 **4.3 Documents overview**

346 The document exchange processes of resource capacity registry tool described in the previous
347 chapter require sending and receiving various ESMP documents. The information to be
348 exchanged is:

- 349 • Acknowledgement_MarketDocument v8.1 based on IEC 62325-451-1:2017 Ed2;
- 350 • ResourceCapacityMarketUnit_MarketDocument v1.2;
- 351 • StatusRequest_MarketDocument v4.0 based on IEC 62325-451-5:2015;

352
353 **4.4 ResourceCapacityMarketUnit_MarketDocument**

354 Following table shows a description of the different attributes in
355 ResourceCapacityMarketUnit_MarketDocument v1.2 to be used in this business process and
356 the XSD requirements for each one of them.

357
358 Note: RCMUs are identified with an EIC-W Production Unit function. Production units are
359 identified with EIC-W Production Unit function. In the case, of consumption units, they are
360 identified with EIC-W Load function. National codes are allowed for both production and
361 consumption units
362 EIC-Z codes or national codes can be used to identify the metering points of the Resource
363 Capacity Mechanism Units and the Units.

364
365 **4.4.1 ResourceCapacityMarketUnit_MarketDocument Dependency Table**

366 **Table 3 - ResourceCapacityMarketUnit_MarketDocument Dependency Table**

ResourceCapacityMarketUnit_MarketDocument				
Class	Attribute	RCMUs basic registration	RCMU allocated entry capacity data	RCMU capacity obligations data
ResourceCapacityMarketUnit_MarketDocument	mRID	Used		
	revisionNumber	Used		
	type	B46: Resource capacity unit document		
	process.processType	A62: Registration		
	sender_MarketParticipant.mRID	Used		
	sender_MarketParticipant.marketRole.type	A04: System Operator	A51: Resource Capacity Mechanism Operator	A51: Resource Capacity Mechanism Operator
	receiver_MarketParticipant.mRID	Used (EIC-V code of the RCRT)		
	receiver_MarketParticipant.marketRole.type	A32: Market information Aggregator	A32: Market information Aggregator	A32: Market information Aggregator
	createdDateTime	Used		
	time_Period.timeInterval	Used (Time interval covered by the whole market document)		
	docstatus	Not used		
Timeseries	mRID	Used		
	businessType	C51: Resource capacity unit	C52: Resource entry capacity data	C53: Resource capacity

				obligation data
	product	8716867000016: Active Power		
	curveType	Not used	A01: Sequential fixed size block A03: Variable sized block	A01: Sequential fixed size block A03: Variable sized block
	resourceCapacityMarketUnit_RegisteredResource.mRID	EIC-W code of the RCMU or national code. Coding Scheme: A01 or National Coding Scheme		
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.maximumCapacity	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.unitSymbol	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.location.name	Optional RCMU facility address, in case it exists.	Not used	Not used
	marketEvaluationPoint.mRID (Linked to ResourceCapacityMarketUnit_RegisteredResource)	Optional EIC-Z code of the RCMU metering point or national code. Coding Scheme: A01 or National Coding Scheme	Not used	Not used
	resourceprovider_MarketParticipant.mRID	EIC-X code of the Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.name	Name of Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.streetAddress	Address of Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.phone1	Phone of Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.electronicAddress	Email of Resource Provider	Not used	Not used
	networkOperator_MarketParticipant.mRID	EIC-X code of the Grid operator in which RCMU is located Coding Scheme: A01	Not used	Not used

	resourceCapacityMechanismOperator_MarketParticipant.mRID	EIC-X code of the RCMO operator in which RCMU is located Coding Scheme: A01	Not used	Not used
	memberState_MarketParticipant.mRID	EIC-Y code of the member state in which the RCMU intends to participate (One timeseries per member state)	EIC-Y code of the member state	EIC-Y code of the member state
	initialRegistration_DateAndOrTime.dateTime	Not used	Not used	Not used
	registration_DateAndOrTime.dateTime	Not used	Not used	Not used
	lastVerification_DateAndOrTime.dateTime	Not used	Not used	Not used
	primaryMarketParticipation_MarketObjectStatus.status	Not used	Not used	Not used
	secondaryMarketParticipation_MarketObjectStatus.status	Not used	Not used	Not used
	capacityMechanism_MarketProductType	Not used	Optional A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism	Optional A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism
	clearanceNumber_Names.name	Not used	Optional	Optional
	measurement_Unit.name	Not used	Used MAW: Megawatt (Allocated entry capacity measurement)	Used MAW: Megawatt (Volume of capacity obligation measurement)
ElegibilityPeriod (Time_Period)	timeInterval	Not used	Not used	Not used

Unit_RegisteredResource	mRID	EIC-W code of the unit or national code. Coding Scheme: A01 or National Coding Scheme	Not used	Not used
	resourceCapacity.maximumCapacity	Used	Not used	Not used
	resourceCapacity.unitSymbol	MAW: Megawatt	Not used	Not used
	technology_PSRType.psrType	B10: Hydro-electric pure pumped storage head installation B11: Hydro Run-of-river head installation B12: Hydro-electric storage head installation B13: Marine unspecified B14: Nuclear unspecified B15: Other renewable B16: Solar unspecified B18: Wind Offshore B19: Wind onshore B20: Other unspecified B25: Energy storage B26: Demand Side Response B27: Dispatchable hydro resource B28: Solar photovoltaic B29: Solar concentration B30: Wind unspecified B31: Hydro-electric unspecified B32: Hydro-electric mixed pumped storage head installation B33: Marine tidal B34: Marine wave B35: Marine currents B36: Marine pressure	Not used	Not used

		<p>B37: Thermal unspecified</p> <p>B38: Thermal combined cycle gas turbine with heat recovery</p> <p>B39: Thermal steam turbine with back-pressure turbine (open cycle)</p> <p>B40: Thermal steam turbine with condensation turbine (closed cycle)</p> <p>B41: Thermal gas turbine with heat recovery</p> <p>B42: Thermal internal combustion engine</p> <p>B43: Thermal micro-turbine</p> <p>B44: Thermal Stirling engine</p> <p>B45: Thermal fuel cell</p> <p>B46: Thermal steam engine</p> <p>B47: Thermal organic Rankine cycle</p> <p>B48: Thermal gas turbine without heat recovery</p> <p>B49: Nuclear heavy water reactor</p> <p>B50: Nuclear light water reactor</p> <p>B51: Nuclear breeder</p> <p>B52: Nuclear graphite reactor</p>		
	Fuel.fuel	<p>A01: Unspecified</p> <p>A02: Renewable solid unspecified</p> <p>A03: Renewable solid municipal waste</p> <p>A04: Renewable solid industrial and commercial waste</p> <p>A05: Renewable solid wood</p> <p>A06: Renewable solid animal fats</p>	Not used	Not used

		<p>A07: Renewable solid biomass from agriculture</p> <p>A08: Renewable liquid unspecified</p> <p>A09: Renewable liquid municipal biodegradable waste</p> <p>A10: Renewable liquid black liquor</p> <p>A11: Renewable liquid pure plant oil</p> <p>A12: Renewable liquid waste plant oil</p> <p>A13: Renewable liquid refined vegetable oil</p> <p>A14: Renewable gaseous unspecified</p> <p>A15: Renewable gaseous landfill gas</p> <p>A16: Renewable gaseous sewage gas</p> <p>A17: Renewable gaseous agricultural gas</p> <p>A18: Renewable gaseous gas from organic waste digestion</p> <p>A19: Renewable gaseous process gas</p> <p>A20: Renewable gaseous other biogenic sources</p> <p>A21: Renewable heating and cooling solar</p> <p>A22: Renewable heating and cooling geothermal</p> <p>A23: Renewable heating and cooling aerothermal</p> <p>A24: Renewable heating and cooling hydrothermal</p> <p>A25: Renewable heating and cooling process heat</p>		
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		<p>A26: Renewable mechanical unspecified</p> <p>A27: Renewable mechanical wind</p> <p>A28: Renewable mechanical hydro and marine</p> <p>A29: Fossil unspecified</p> <p>A30: Fossil solid unspecified</p> <p>A31: Fossil solid hard coal</p> <p>A32: Fossil solid brown coal</p> <p>A33: Fossil solid peat</p> <p>A34: Fossil solid municipal waste</p> <p>A35: Fossil solid industrial and commercial waste</p> <p>A36: Fossil liquid unspecified</p> <p>A37: Fossil liquid crude oil</p> <p>A38: Fossil liquid natural gas liquids (NGL)</p> <p>A39: Fossil liquid petroleum products</p> <p>A40: Fossil gaseous unspecified</p> <p>A41: Fossil gaseous natural gas</p> <p>A42: Fossil gaseous coal-derived gas</p> <p>A43: Fossil gaseous petroleum products</p> <p>A44: Fossil gaseous municipal gas plant</p> <p>A45: Fossil gaseous process gas</p> <p>A46: Fossil heat unspecified</p> <p>A47: Fossil heat process heat</p> <p>A48: Nuclear solid radioactive fuel</p> <p>A49: Gas synthesis unspecified</p>		
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		<p>A50: Gas synthesis furnace gas</p> <p>A51: Waste heat and cold unspecified</p> <p>A52: Waste heat and cold By-product in industrial installation</p> <p>A53: Waste heat and cold By-product in power generation</p> <p>A54: Waste heat and cold By-product in tertiary sector</p>		
street_Location.name	Mandatory Street where unit is located		Not used	Not used
streetNumber_Location.name	Mandatory Street number where unit is located		Not used	Not used
city_Location.name	Mandatory City where unit is located		Not used	Not used
postalCode_Location.name	Mandatory Postal code where unit is located		Not used	Not used
country_Location.name	Mandatory Country where unit is located		Not used	Not used
gPS_Location.gPS_CoordinateSystem.mRID	<p>Mandatory in case that GPS coordinates are provided</p> <p>A03: WGS84</p>		Not used	Not used
gPS_Location.gPS_PositionPoints.xPosition	<p>Mandatory in case that GPS coordinates are provided</p> <p>Latitude</p>		Not used	Not used
gPS_Location.gPS_PositionPoints.yPosition	<p>Optional in case that GPS coordinates are provided</p> <p>Longitude</p>		Not used	Not used
gPS_Location.gPS_PositionPoints.zPosition	<p>Mandatory in case that GPS coordinates are provided</p> <p>Altitude</p>		Not used	Not used

	marketEvaluationPoint.mRID (Linked to Unit_Registered Resource)	Optional EIC-Z code of the Unit metering point or national code. Coding Scheme: A01 or National Coding Scheme	Not used	Not used
Measurements (Analog)	measurementType	Optional A23: CO2 emission	Not used	Not used
	unitSymbol	Only used with code A23:CO2 emission GKH: grams per kilowatt hour	Not used	Not used
	analogValues.value	Only used with code A23:CO2 emission (0 in case of no CO2 emission)	Not used	Not used
Series_Period	timeInterval	Not used	Used	Used
	resolution	Not used	Delivery period (One value for the whole delivery period)	Delivery Period (One value for the whole delivery period)
Point	position	Not used	Used	Used
	quantity	Not used	Allocated entry capacity	Volume of capacity

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371 **4.5 StatusRequest_MarketDocument**

372 Following table shows a description of the different attributes in
373 StatusRequest_MarketDocument v1.0 to be used in this business process and the XSD
374 requirements for each one of them.

375 **4.5.1 StatusRequest_MarketDocument Dependency Table**

376 **Table 4 - StatusRequest_MarketDocument Dependency Table**

StatusRequest_MarketDocument		
Class	Attribute	Values
StatusRequest_MarketDocument	mRID	Used
	type	A59: Information request
	sender_MarketParticipant.mRID	Used
	sender_MarketParticipant.marketRole.type	A04: System Operator A51: Resource Capacity Mechanism Operator
	receiver_MarketParticipant.mRID	Used
	receiver_MarketParticipant.marketRole.type	A32: Market information Aggregator
	createdDate	Used

377

378 **4.5.2 AttributeInstanceComponent queries**

379 General Notes:

- 380 • Only one option is allowed per request
- 381 • In case of retrieving n RCMUs information, you should include n instances of
382 AttributeInstanceComponent including the n
383 ResourceCapacityMarketUnit_RegisteredResource.mRID. If user wants all RCMU,
384 then user has to put a star (*)
385 ResourceCapacityMarketUnit_RegisteredResource.mRID instance.
- 386 • history_period attribute is used to obtain RCMU results from the registry in a
387 determined time interval. The time interval is composed of two date times (begin and
388 end) linked with a low bar. The date time has to be issued in ISO 8601 format and in
389 UTC. Expected time interval should look like this: YYYY-MM-
390 DDThh:mm:ss.sssZ_YYYY-MM-DDThh:mm:ss.sssZ (To the left of low bar we have the
391 begin date and to the right the end date)
- 392 • As national codes are also allowed to identify RCMUs, we need to include Coding
393 Scheme to distinguish between EIC or national codes. For that reason, together with
394 the RCMU ID, user has to submit the coding scheme. RCMU ID and coding scheme
395 will be sent together and separated by a semicolon. E.G. 14W-GJO-KW-TU1-Q;A01
396

397

398 **4.5.2.1 RCMU registration details**

399 This query returns the RCMU registration details except allocated entry capacity, eligibility and
400 capacity obligations.

401

402 **Table 5 – RCMU registration details request**

attribute	option
attributeValue	RCMU_registration_details
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

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405

406 **4.5.2.2 RCMU market details**

407 This query returns the RCMU allocated entry capacity, eligibility and capacity obligations.

408

409 **Table 6 – RCMU market details query**

attribute	option
attributeValue	RCMU_market_details
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

410

411 **4.5.2.3 RCMU registration and market details**

412 This query returns the RCMU registration details, the allocated entry capacity, eligibility and capacity obligations.

413

414

415

Table 7 – RCMU registration and market details query

attribute	option
attributeValue	RCMU_registration_market_details
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

416

417 **4.5.2.4 RCMU corporate credentials**

418 This query returns the RCMU corporate credentials.

419

420

Table 8 – RCMU corporate credentials

attribute	option
attributeValue	RCMU_cooperate_credentials
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

421

422 **4.5.2.5 RCMU facility address**

423 This query returns the RCMU facility address.

424

425 **Table 9 – RCMU facility address**

attribute	option
attributeValue	RCMU_facility_address
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

426

427 **4.5.2.6 RCMU aggregated capacity**

428 This query returns the RCMU aggregated maximum capacity.

429

430 **Table 10 – RCMU aggregated capacity**

attribute	option
attributeValue	RCMU_aggregated_capacity
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

431

432 **4.5.2.7 RCMU grid operator**

433 This query returns the RCMU grid operator.

434

435 **Table 11 – RCMU grid operator**

attribute	option
attributeValue	RCMU_grid_operator
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

436

437

438 **4.5.2.8 RCMO where RCMU is located**

439 This query returns the RCMO where RCMU is located.

440
441

Table 12 – RCMO where RCMU is located

attribute	option
attributeValue	RCMU_RCMO
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

442

443 **4.5.2.9 RCMU CO2 emission**

444 This query returns the CO2 emission per unit in the RCMU.

445

446

Table 13 – RCMU CO2 emission

attribute	option
attributeValue	RCMU_CO2
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

447

448 **4.5.2.10 RCMU Technology Types**

449 This query returns the technology per unit in the RCMU.

450

451

Table 14 – RCMU Technology Types

attribute	option
attributeValue	RCMU_technology_types
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

452

453

454 **4.5.2.11 RCMU Eligibility periods**

455 This query returns the RCMU eligibility periods.

456

457 **Table 15 – RCMU eligibility periods**

attribute	option
attributeValue	RCMU_eligibility_periods
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code.
	Or
	*
	(To get all RCMUs)
attribute	memberState_MarketParticipant.mRID (Only used in case we want to filter per member state)
attributeValue	EIC-Y code of the member state (Only used in case we want to filter per member state)
attribute	eligibility_Period.timeInterval (Only used in case we want to filter the eligibility period)
attributeValue	Time Interval of the Eligibility Period (Only used in case we want to filter the eligibility period)
attribute	primaryMarketParticipation_MarketObjectStatus.status (Only used in case we want to filter primary market participation status)
attributeValue	A61: Primary market
attribute	secondaryMarketParticipation_MarketObjectStatus.status (Only used in case we want to filter secondary market participation status)
attributeValue	A62: Secondary market
attribute	capacityMechanism_MarketProduct.marketProductType (Only used in case we want to filter capacity mechanism type)
attributeValue	A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism
attribute	clearanceNumber_Names.name (Only used in case we want to filter by clearance number)
attributeValue	Clearance number (Only used in case we want to filter by clearance number)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

458

459 **4.5.2.12 RCMU allocated entry capacities**

460 This query returns the RCMU allocated entry capacities.

461

462 **Table 16 – RCMU allocated entry capacities**

attribute	option
attributeValue	RCMU_entry_capacities
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code.
	Or
	*
	(To get all RCMUs)
attribute	memberState_MarketParticipant.mRID (Only used in case we want to filter per member state)
attributeValue	EIC-Y code of the member state

	(Only used in case we want to filter per member state)
attribute	Delivery_Period.timeInterval (Only used in case we want to filter the eligibility period)
attributeValue	Time Interval of the Delivery Period (Only used in case we want to filter the eligibility period)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

463

464 **4.5.2.13 RCMU capacity obligations**

465 This query returns the RCMU capacity obligations.

466

467 **Table 17 – RCMU capacity obligations**

attribute	option
attributeValue	RCMU_capacity_obligations
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID
attributeValue	EIC-W code of the RCMU or national code. Or * (To get all RCMUs)
attribute	memberState_MarketParticipant.mRID (Only used in case we want to filter per member state)
attributeValue	EIC-Y code of the member state (Only used in case we want to filter per member state)
attribute	delivery_period (Only used in case we want to filter delivery period)
attributeValue	Delivery period time interval (Only used in case we want to filter delivery period)
attribute	history_period (Only used in case we want to filter data for a determined period)
attributeValue	Historical period to be retrieved. (Only used in case we want to filter data for a determined period)

468

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470 **4.6 Responses to status requests**

471 Following table shows a description of the responses to the different requests detailed in the
472 previous chapter. ResourceCapacityMarketUnit_MarketDocument will be used to provide the
473 requested data for all the different cases.

474 **4.6.1 ResourceCapacityMarketUnit_MarketDocument Dependency Table**

475 The dependency table below for ResourceCapacityMarketUnit_MarketDocument class will be
476 used for all the responses to the different requests.

Class	Attribute	Values
ResourceCapacityMarketUnit_MarketDocument	mRID	Used
	revisionNumber	Used
	type	B46: Resource capacity unit document
	process.processType	A62: Registration
	sender_MarketParticipant.mRID	Used
	sender_MarketParticipant.marketRole.type	A32: Market information Aggregator
	receiver_MarketParticipant.mRID	Used
	receiver_MarketParticipant.marketRole.type	A04: System Operator A51: Resource Capacity Mechanism Operator
	createdDateTime	Used
	time_Period.timeInterval	Used
	docstatus	Not used

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479 **4.6.2 RCMU Timeseries Dependency Table 1/4**

480 The dependency table below shows the different combinations for RCMU registration details,
481 RCMU market details and RCMU registration and market details.

482 **Table 18 - RCMU Timeseries Dependency Table 1/4**

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
Timeseries	mRID	Used		
	businessType	C51: Resource capacity unit	C51: Resource capacity unit C52: Resource entry capacity data C53: Resource capacity obligation data	C51: Resource capacity unit C52: Resource entry capacity data C53: Resource capacity obligation data
	product	8716867000016: Active Power		
	curveType	Not used	A01: Sequential fixed size block A03: Variable sized block	A01: Sequential fixed size block A03: Variable sized block
	resourceCapacityMarketUnit_RegisteredResource.mRID	EIC-W code of the RCMU or national code. Coding Scheme: A01 or National Coding Scheme		
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.maximumCapacity	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.unitSymbol	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.location.name	Not used	Not used	Not used

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	marketEvaluationPoint.mRID (Linked to ResourceCapacityMarketUnit_RegisteredResource)	Mandatory in case that metering point is registered EIC-Z code of the RCMU metering point or national code. Coding Scheme: A01 or National Coding Scheme	Not used	Mandatory in case that metering point is registered EIC-Z code of the RCMU metering point or national code. Coding Scheme: A01 or National Coding Scheme (Only for businessType code C51)
	resourceprovider_MarketParticipant.mRID	EIC-X code of the Resource Provider	Not used	EIC-X code of the Resource Provider (Only for businessType code C51)
	resourceprovider_MarketParticipant.name	Name of Resource Provider	Not used	Name of Resource Provider (Only for businessType code C51)
	resourceprovider_MarketParticipant.streetAddress	Address of Resource Provider	Not used	Address of Resource Provider (Only for businessType code C51)
	resourceprovider_MarketParticipant.phone1	Phone of Resource Provider	Not used	Phone of Resource Provider (Only for businessType code C51)
	resourceprovider_MarketParticipant.electronicAddress	Email of Resource Provider	Not used	Email of Resource Provider (Only for businessType code C51)

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	networkOperator_MarketParticipant.mRID	EIC-X code of the Grid operator Coding Scheme: A01	Not used	EIC-X code of the Grid operator Coding Scheme: A01 (Only for businessType code C51)
	resourceCapacityMechanismOperator_MarketParticipant.mRID	EIC-X code of the RCMO Coding Scheme: A01	Not used	EIC-X code of the RCMO Coding Scheme: A01
	memberState_MarketParticipant.mRID	EIC-Y code of the member state	EIC-Y code of the member state	EIC-Y code of the member state
	initialRegistration_DateAndOrTime.dateTime	Used	Used	Used
	registration_DateAndOrTime.dateTime	Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is the same datetime)
	lastVerification_DateAndOrTime.dateTime	May be used when retrieving data	May be used when retrieving data	May be used when retrieving data
	primaryMarketParticipation_MarketObjectStatus.status	Not used	Optional A61: Primary market	Optional A61: Primary market
	secondaryMarketParticipation_MarketObjectStatus.status	Not used	Optional A62: Secondary market	Optional A62: Secondary market

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	capacityMechanism_MarketProduct.marketProduct Type	Not used	Mandatory only if capacity mechanism product is registered A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism	Mandatory only if capacity mechanism product is registered A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism
	clearanceNumber_Names.name	Not used	Optional	Optional
	measurement_Unit.name	Not used	Used MAW: Megawatt	Used MAW: Megawatt
ElegibilityPeriod (Time_Period)	timeInterval	Not used	Used (Only for businessType code C51)	Used (Only for businessType code C51)
Unit_RegisteredResource	mRID	EIC-W code of the Unit or national code. Coding Scheme: A01 or National Coding Scheme	Not used	EIC code of the unit. Coding Scheme: A01 (Only for businessType code C51)
	resourceCapacity.maximumCapacity	Used	Not used	Used (Only for businessType code C51)
	resourceCapacity.unitSymbol	MAW: Megawatt	Not used	MAW: Megawatt (Only for businessType code C51)

		<p>B10: Hydro-electric pure pumped storage head installation</p> <p>B11: Hydro Run-of-river head installation</p> <p>B12: Hydro-electric storage head installation</p> <p>B13: Marine unspecified</p> <p>B14: Nuclear unspecified</p> <p>B15: Other renewable</p> <p>B16: Solar unspecified</p> <p>B18: Wind Offshore</p> <p>B19: Wind onshore</p> <p>B20: Other unspecified</p> <p>B25: Energy storage</p> <p>B26: Demand Side Response</p> <p>B27: Dispatchable hydro resource</p> <p>B28: Solar photovoltaic</p> <p>B29: Solar concentration</p> <p>B30: Wind unspecified</p> <p>B31: Hydro-electric unspecified</p> <p>B32: Hydro-electric mixed pumped storage head installation</p> <p>B33: Marine tidal</p> <p>B34: Marine wave</p> <p>B35: Marine currents</p> <p>B36: Marine pressure</p> <p>B37: Thermal unspecified</p> <p>B38: Thermal combined cycle gas turbine with heat recovery</p> <p>B39: Thermal steam turbine with back-pressure turbine (open cycle)</p> <p>B40: Thermal steam turbine with</p>	Not used	<p>B10: Hydro-electric pure pumped storage head installation</p> <p>B11: Hydro Run-of-river head installation</p> <p>B12: Hydro-electric storage head installation</p> <p>B13: Marine unspecified</p> <p>B14: Nuclear unspecified</p> <p>B15: Other renewable</p> <p>B16: Solar unspecified</p> <p>B18: Wind Offshore</p> <p>B19: Wind onshore</p> <p>B20: Other unspecified</p> <p>B25: Energy storage</p> <p>B26: Demand Side Response</p> <p>B27: Dispatchable hydro resource</p> <p>B28: Solar photovoltaic</p> <p>B29: Solar concentration</p> <p>B30: Wind unspecified</p> <p>B31: Hydro-electric unspecified</p> <p>B32: Hydro-electric mixed pumped storage head installation</p> <p>B33: Marine tidal</p> <p>B34: Marine wave</p> <p>B35: Marine currents</p> <p>B36: Marine pressure</p> <p>B37: Thermal unspecified</p> <p>B38: Thermal combined cycle gas turbine</p>
	technology_PSR Type.psrType			

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
		condensation turbine (closed cycle) B41: Thermal gas turbine with heat recovery B42: Thermal internal combustion engine B43: Thermal micro-turbine B44: Thermal Stirling engine B45: Thermal fuel cell B46: Thermal steam engine B47: Thermal organic Rankine cycle B48: Thermal gas turbine without heat recovery B49: Nuclear heavy water reactor B50: Nuclear light water reactor B51: Nuclear breeder B52: Nuclear graphite reactor		with heat recovery B39: Thermal steam turbine with back-pressure turbine (open cycle) B40: Thermal steam turbine with condensation turbine (closed cycle) B41: Thermal gas turbine with heat recovery B42: Thermal internal combustion engine B43: Thermal micro-turbine B44: Thermal Stirling engine B45: Thermal fuel cell B46: Thermal steam engine B47: Thermal organic Rankine cycle B48: Thermal gas turbine without heat recovery B49: Nuclear heavy water reactor B50: Nuclear light water reactor B51: Nuclear breeder B52: Nuclear graphite reactor (Only for businessType code C51)

		<p>A01: Unspecified A02: Renewable solid unspecified A03: Renewable solid municipal waste A04: Renewable solid industrial and commercial waste A05: Renewable solid wood A06: Renewable solid animal fats A07: Renewable solid biomass from agriculture A08: Renewable liquid unspecified A09: Renewable liquid municipal biodegradable waste A10: Renewable liquid black liquor A11: Renewable liquid pure plant oil A12: Renewable liquid waste plant oil A13: Renewable liquid refined vegetable oil A14: Renewable gaseous unspecified A15: Renewable gaseous landfill gas A16: Renewable gaseous sewage gas A17: Renewable gaseous agricultural gas A18: Renewable gaseous gas from organic waste digestion A19: Renewable gaseous process gas A20: Renewable gaseous other biogenic sources A21: Renewable heating and cooling solar A22: Renewable heating and cooling geothermal</p>	Not used	<p>A01: Unspecified A02: Renewable solid unspecified A03: Renewable solid municipal waste A04: Renewable solid industrial and commercial waste A05: Renewable solid wood A06: Renewable solid animal fats A07: Renewable solid biomass from agriculture A08: Renewable liquid unspecified A09: Renewable liquid municipal biodegradable waste A10: Renewable liquid black liquor A11: Renewable liquid pure plant oil A12: Renewable liquid waste plant oil A13: Renewable liquid refined vegetable oil A14: Renewable gaseous unspecified A15: Renewable gaseous landfill gas A16: Renewable gaseous sewage gas A17: Renewable gaseous agricultural gas A18: Renewable gaseous gas from organic waste digestion A19: Renewable gaseous process gas A20: Renewable gaseous other biogenic sources A21: Renewable heating and cooling solar A22: Renewable heating and cooling geothermal</p>
	Fuel.fuel			

		<p>A23: Renewable heating and cooling aerothermal</p> <p>A24: Renewable heating and cooling hydrothermal</p> <p>A25: Renewable heating and cooling process heat</p> <p>A26: Renewable mechanical unspecified</p> <p>A27: Renewable mechanical wind</p> <p>A28: Renewable mechanical hydro and marine</p> <p>A29: Fossil unspecified</p> <p>A30: Fossil solid unspecified</p> <p>A31: Fossil solid hard coal</p> <p>A32: Fossil solid brown coal</p> <p>A33: Fossil solid peat</p> <p>A34: Fossil solid municipal waste</p> <p>A35: Fossil solid industrial and commercial waste</p> <p>A36: Fossil liquid unspecified</p> <p>A37: Fossil liquid crude oil</p> <p>A38: Fossil liquid natural gas liquids (NGL)</p> <p>A39: Fossil liquid petroleum products</p> <p>A40: Fossil gaseous unspecified</p> <p>A41: Fossil gaseous natural gas</p> <p>A42: Fossil gaseous coal-derived gas</p> <p>A43: Fossil gaseous petroleum products</p> <p>A44: Fossil gaseous municipal gas plant</p>		<p>A16: Renewable gaseous sewage gas</p> <p>A17: Renewable gaseous agricultural gas</p> <p>A18: Renewable gaseous gas from organic waste digestion</p> <p>A19: Renewable gaseous process gas</p> <p>A20: Renewable gaseous other biogenic sources</p> <p>A21: Renewable heating and cooling solar</p> <p>A22: Renewable heating and cooling geothermal</p> <p>A23: Renewable heating and cooling aerothermal</p> <p>A24: Renewable heating and cooling hydrothermal</p> <p>A25: Renewable heating and cooling process heat</p> <p>A26: Renewable mechanical unspecified</p> <p>A27: Renewable mechanical wind</p> <p>A28: Renewable mechanical hydro and marine</p> <p>A29: Fossil unspecified</p>
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		<p>A45: Fossil gaseous process gas</p> <p>A46: Fossil heat unspecified</p> <p>A47: Fossil heat process heat</p> <p>A48: Nuclear solid radioactive fuel</p> <p>A49: Gas synthesis unspecified</p> <p>A50: Gas synthesis furnace gas</p> <p>A51: Waste heat and cold unspecified</p> <p>A52: Waste heat and cold By-product in industrial installation</p> <p>A53: Waste heat and cold By-product in power generation</p> <p>A54: Waste heat and cold By-product in tertiary sector</p>		<p>A30: Fossil solid unspecified</p> <p>A31: Fossil solid hard coal</p> <p>A32: Fossil solid brown coal</p> <p>A33: Fossil solid peat</p> <p>A34: Fossil solid municipal waste</p> <p>A35: Fossil solid industrial and commercial waste</p> <p>A36: Fossil liquid unspecified</p> <p>A37: Fossil liquid crude oil</p> <p>A38: Fossil liquid natural gas liquids (NGL)</p> <p>A39: Fossil liquid petroleum products</p> <p>A40: Fossil gaseous unspecified</p> <p>A41: Fossil gaseous natural gas</p> <p>A42: Fossil gaseous coal-derived gas</p> <p>A43: Fossil gaseous petroleum products</p> <p>A44: Fossil gaseous municipal gas plant</p> <p>A45: Fossil gaseous process gas</p> <p>A46: Fossil heat unspecified</p> <p>A47: Fossil heat process heat</p> <p>A48: Nuclear solid radioactive fuel</p>
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Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
				<p>A49: Gas synthesis unspecified</p> <p>A50: Gas synthesis furnace gas</p> <p>A51: Waste heat and cold unspecified</p> <p>A52: Waste heat and cold By-product in industrial installation</p> <p>A53: Waste heat and cold By-product in power generation</p> <p>A54: Waste heat and cold By-product in tertiary sector</p> <p>(Only for businessType code C51)</p>
	street_Location.name	May be used Street where unit is located	Not used	<p>May be used only for businessType code C51</p> <p>Street where unit is located</p>
	streetNumber_Location.name	May be used Street number where unit is located	Not used	<p>May be used only for businessType code C51</p> <p>Street number where unit is located</p>
	city_Location.name	May be used City where unit is located	Not used	<p>May be used only for businessType code C51</p> <p>City where unit is located</p>
	postalCode_Location.name	May be used Postal code where unit is located	Not used	<p>May be used only for businessType code C51</p> <p>Postal code where unit is located</p>

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	country_Location.name	May be used Country where unit is located	Not used	May be used only for businessType code C51 Country where unit is located
	gPS_Location.gPS_CoordinateSystem.mRID	Mandatory in case that GPS coordinates are registered A03: WGS84	Not used	Mandatory in case that GPS coordinates are registered (only for businessType code C51) A03: WGS84
	gPS_Location.gPS_PositionPoints.xPosition	Mandatory in case that GPS coordinates are registered Latitude	Not used	Mandatory in case that GPS coordinates are registered (only for businessType code C51) GPS coordinates
	gPS_Location.gPS_PositionPoints.yPosition	Mandatory in case that GPS coordinates are registered Longitude	Not used	Optional in case that GPS coordinates are registered (only for businessType code C51) Additional GPS coordinates description
	gPS_Location.gPS_PositionPoints.zPosition	Mandatory in case that GPS coordinates are registered Altitude	Not used	Mandatory in case that GPS coordinates are registered Altitude (only for businessType code C51)

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	marketEvaluationPoint.mRID (Linked to Unit_Registered Resource)	Mandatory in case that metering point is registered EIC-Z code of the Unit metering point or national code. Coding Scheme: A01 or National Coding Scheme	Not used	Mandatory in case that metering point is registered EIC-Z code of the Unit metering point or national code. Coding Scheme: A01 or National Coding Scheme (only for businessType code C51)
Measurements (Analog)	measurementType	Mandatory in case that CO2 emissions are registered A23: CO2 emission	Not used	Mandatory in case that CO2 emissions are registered A23: CO2 emission (Only for businessType code C51)
	unitSymbol	Mandatory in case that CO2 emissions are registered GKH: grams per kilowatt hour	Not used	Mandatory in case that CO2 emissions are registered GKH: grams per kilowatt hour (Only for businessType code C51)
	analogValues.value	Mandatory in case that CO2 emissions are registered (0 in case of no CO2 emission)	Not used	Mandatory in case that CO2 emissions are registered Used (0 in case of no CO2 emission) (Only for businessType code C51)
Series_Period	timeInterval	Not used	Used	Used

Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	resolution	Not used	Delivery period (Only for businessType codes C52 and C53)	Delivery Period (Only for businessType codes C52 and C53)
Point	position	Not used	Used	Used
	quantity	Not used	Quantity	Quantity

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485 **4.6.3 RCMU Timeseries Dependency Table 2/4**

486 The dependency table below shows the different combinations for RCMU corporate credentials,
487 RCMU facility address and RCMU aggregated capacity.

488 **Table 19 - RCMU Timeseries Dependency Table 2/4**

Class	Attribute	RCMU corporate credentials	RCMU facility address	RCMU aggregated capacity
Timeseries	mRID	Used		
	businessType	C51: Resource capacity unit	C51: Resource capacity unit	C51: Resource capacity unit
	product	8716867000016: Active Power		
	curveType	Not used	Not used	Not used
	ResourceCapacityMarketUnit_RegisteredResource.mRID	EIC-W code of the RCMU or national code. Coding Scheme: A01 or National Coding Scheme		
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.maximumCapacity	Not used	Not used	Used
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.unitSymbol	Not used	Not used	MAW: Megawatt
	resourceCapacityMarketUnit_RegisteredResource.location.name	Not used	Used	Not used
	marketEvaluationPoint.mRID (Linked to ResourceCapacityMarketUnit_RegisteredResource)	Not used	Mandatory in case that metering point is registered	Not used
	resourceprovider_MarketParticipant.mRID	EIC-X code of the Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.name	Name of Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.streetAddress	Address of Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.phone1	Phone of Resource Provider	Not used	Not used
	resourceprovider_MarketParticipant.electronicAddress	Email of Resource Provider	Not used	Not used
networkOperator_MarketParticipant.mRID	Not used	Not used	Not used	

Class	Attribute	RCMU corporate credentials	RCMU facility address	RCMU aggregated capacity
	resourceCapacityMechanismOperator_MarketParticipant.mRID	Not used	Not used	Not used
	memberState_MarketParticipant.mRID	Not used	Not used	Not used
	initialRegistration_DateAndOrTime.dateTime	Used	Used	Used
	registration_DateAndOrTime.dateTime	Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is the same datetime)
	lastVerification_DateAndOrTime.dateTime	May be used when retrieving data	May be used when retrieving data	May be used when retrieving data
	primaryMarketParticipation_MarketObjectStatus.status	Not used	Not used	Not used
	secondaryMarketParticipation_MarketObjectStatus.status	Not used	Not used	Not used
	capacityMechanism_MarketProduct.marketProductType	Not used	Not used	Not used
	clearanceNumber_Names.name	Not used	Not used	Not used
	measurement_Unit.name	Not used	Not used	Not used
ElegibilityPeriod (Time_Period)	timeInterval	Not used	Not used	Not used
Unit_RegisteredResource	mRID	Not used	Used	Not used
	resourceCapacity.maximumCapacity	Not used	Not used	Not used
	resourceCapacity.unitSymbol	Not used	Not used	Not used
	technology_PSRType.psrType	Not used	Not used	Not used
	Fuel.fuel	Not used	Not used	Not used
	street_Location.name	Not used	Used Street where unit is located	Not used

Class	Attribute	RCMU corporate credentials	RCMU facility address	RCMU aggregated capacity
	streetNumber_Location.name	Not used	Used Street number where unit is located	Not used
	city_Location.name	Not used	Used City where unit is located	Not used
	postalCode_Location.name	Not used	Used Postal code where unit is located	Not used
	country_Location.name	Not used	Used Country where unit is located	Not used
	gPS_Location.gPS_CoordinateSystem.mRID	Not used	Used in case that GPS coordinates are registered A03: WGS84	Not used
	gPS_Location.gPS_PositionPoints.xPosition	Not used	Used in case that GPS coordinates are registered Latitude	Not used
	gPS_Location.gPS_PositionPoints.yPosition	Not used	Optional in case that GPS coordinates are registered Longitude	Not used
	gPS_Location.gPS_PositionPoints.zPosition	Not used	Used in case that GPS coordinates are registered Altitude	Not used
	marketEvaluationPoint.mRID (Linked to Unit_Registered Resource)	Not used	Not used	Not used
Measurements (Analog)	measurementType	Not used	Not used	Not used
	unitSymbol	Not used	Not used	Not used
	analogValues.value	Not used	Not used	Not used
Series_Period	timeInterval	Not used	Not used	Not used
	resolution	Not used	Not used	Not used
Point	position	Not used	Not used	Not used
	quantity	Not used	Not used	Not used

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490 4.6.4 RCMU Timeseries Dependency Table 3/4

491 The dependency table below shows the different combinations for RCMO where RCMU is
492 located, RCMU CO2 emission and RCMU technology types.

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494 **Table 20 - RCMU Timeseries dependency table 3/4**

Class	Attribute	RCMO where RCMU is located	RCMU CO2 emission	RCMU technology types
Timeseries	mRID	Used		
	businessType	C51: Resource capacity unit	C51: Resource capacity unit	C51: Resource capacity unit
	product	8716867000016: Active Power		
	curveType	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.mRID	EIC-W code of the RCMU or national code. Coding Scheme: A01 or National Coding Scheme		
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.maximumCapacity	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.unitSymbol	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.location.name	Not used	Not used	Not used
	marketEvaluationPoint.mRID (Linked to ResourceCapacityMarketUnit_RegisteredResource)	Not used	Not used	Not used
	resourceprovider_MarketParticipant.mRID	Not used	Not used	Not used
	resourceprovider_MarketParticipant.name	Not used	Not used	Not used
	resourceprovider_MarketParticipant.streetAddress	Not used	Not used	Not used
	resourceprovider_MarketParticipant.phone1	Not used	Not used	Not used
	resourceprovider_MarketParticipant.electronicAddress	Not used	Not used	Not used
	networkOperator_MarketParticipant.mRID	Not used	Not used	Not used
	resourceCapacityMechanismOperator_MarketParticipant.mRID	EIC-X code of the RCMO Coding Scheme: A01	Not used	Not used

Class	Attribute	RCMO where RCMU is located	RCMU CO2 emission	RCMU technology types
	memberState_MarketParticipant.mRID	Not used	Not used	Not used
	initialRegistration_DateAndOrTime.dateTime	Used	Used	Used
	registration_DateAndOrTime.dateTime	Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is the same datetime)
	lastVerification_DateAndOrTime.dateTime	May be used when retrieving data	May be used when retrieving data	May be used when retrieving data
	primaryMarketParticipation_MarketObjectStatus.status	Not used	Not used	Not used
	secondaryMarketParticipation_MarketObjectStatus.status	Not used	Not used	Not used
	capacityMechanism_MarketProduct.marketProductType	Not used	Not used	Not used
	clearanceNumber_Names.name	Not used	Not used	Not used
	measurement_Unit.name	Not used	Not used	Not used
ElegibilityPeriod (Time_Period)	timeInterval	Not used	Not used	Not used
Unit_RegisteredResource	mRID	Not used	EIC-W code of the Unit or national code. Coding Scheme: A01 or National Coding Scheme	EIC-W code of the Unit or national code. Coding Scheme: A01 or National Coding Scheme
	resourceCapacity.maximumCapacity	Not used	Not used	Not used
	resourceCapacity.unitSymbol	Not used	Not used	Not used

		Not used	Not used	<p>B10: Hydro-electric pure pumped storage head installation</p> <p>B11: Hydro Run-of-river head installation</p> <p>B12: Hydro-electric storage head installation</p> <p>B13: Marine unspecified</p> <p>B14: Nuclear unspecifiedr</p> <p>B15: Other renewable</p> <p>B16: Solar unspecified</p> <p>B18: Wind Offshore</p> <p>B19: Wind onshore</p> <p>B20: Other unspecified</p> <p>B25: Energy storage</p> <p>B26: Demand Side Response</p> <p>B27: Dispatchable hydro resource</p> <p>B28: Solar photovoltaic</p> <p>B29: Solar concentration</p> <p>B30: Wind unspecified</p> <p>B31: Hydro-electric unspecified</p> <p>B32: Hydro-electric mixed pumped storage head installation</p> <p>B33: Marine tidal</p> <p>B34: Marine wave</p> <p>B35: Marine currents</p> <p>B36: Marine pressure</p> <p>B37: Thermal unspecified</p> <p>B38: Thermal combined cycle gas turbine</p>
	technology_PSR Type.psrType			

Class	Attribute	RCMO where RCMU is located	RCMU CO2 emission	RCMU technology types
				with heat recovery B39: Thermal steam turbine with back-pressure turbine (open cycle) B40: Thermal steam turbine with condensation turbine (closed cycle) B41: Thermal gas turbine with heat recovery B42: Thermal internal combustion engine B43: Thermal micro-turbine B44: Thermal Stirling engine B45: Thermal fuel cell B46: Thermal steam engine B47: Thermal organic Rankine cycle B48: Thermal gas turbine without heat recovery B49: Nuclear heavy water reactor B50: Nuclear light water reactor B51: Nuclear breeder B52: Nuclear graphite reactor
	Fuel.fuel	Not used	Not used	Not used
	street_Location.name	Not used	Not used	Not used
	streetNumber_Location.name	Not used	Not used	Not used
	city_Location.name	Not used	Not used	Not used
	postalCode_Location.name	Not used	Not used	Not used

Class	Attribute	RCMO where RCMU is located	RCMU CO2 emission	RCMU technology types
	country_Location.name	Not used	Not used	Not used
	gPS_Location.gPS_CoordinateSystem.mRID	Not used	Not used	Not used
	gPS_Location.gPS_PositionPoints.xPosition	Not used	Not used	Not used
	gPS_Location.gPS_PositionPoints.yPosition	Not used	Not used	Not used
	gPS_Location.gPS_PositionPoints.zPosition	Not used	Not used	Not used
	marketEvaluationPoint.mRID (Linked to Unit_Registered Resource)	Not used	Not used	Not used
Measurements (Analog)	measurementType	Not used	A23: CO2 emission	Not used
	unitSymbol	Not used	GKH: grams per kilowatt hour	Not used
	analogValues.value	Not used	Used (0 in case of no CO2 emission)	Not used
Series_Period	timeInterval	Not used	Not used	Not used
	resolution	Not used	Not used	Not used
Point	position	Not used	Not used	Not used
	quantity	Not used	Not used	Not used

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497 **4.6.5 RCMU Timeseries Dependency Table 4/4**

498 The dependency table below shows the different combinations for RCMU eligibility periods,
499 RCMU allocated entry capacities and RCMU capacity obligations.

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Table 21 - RCMU Timeseries Dependency Table 4/4

Class	Attribute	RCMU eligibility periods	RCMU allocated entry capacities	RCMU capacity obligations
Timeseries	mRID	Used		
	businessType	C51: Resource capacity unit	C52: Resource entry capacity data	C53: Resource capacity obligation data
	product	8716867000016: Active Power		
	curveType	Not used	A01: Sequential fixed size block A03: Variable sized block	A01: Sequential fixed size block A03: Variable sized block
	resourceCapacityMarketUnit_RegisteredResource.mRID	EIC-W code of the RCMU or national code. Coding Scheme: A01 or National Coding Scheme		

Class	Attribute	RCMU eligibility periods	RCMU allocated entry capacities	RCMU capacity obligations
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.maximumCapacity	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.resourceCapacity.unitSymbol	Not used	Not used	Not used
	resourceCapacityMarketUnit_RegisteredResource.location.name	Not used	Not used	Not used
	marketEvaluationPoint.mRID (Linked to ResourceCapacityMarketUnit_RegisteredResource)	Not used	Not used	Not used
	resourceprovider_MarketParticipant.mRID	Not used	Not used	Not used
	resourceprovider_MarketParticipant.name	Not used	Not used	Not used
	resourceprovider_MarketParticipant.streetAddress	Not used	Not used	Not used
	resourceprovider_MarketParticipant.phone1	Not used	Not used	Not used
	resourceprovider_MarketParticipant.electronicAddress	Not used	Not used	Not used
	networkOperator_MarketParticipant.mRID	Not used	Not used	Not used
	resourceCapacityMechanismOperator_MarketParticipant.mRID	Not used	Not used	Not used
	memberState_MarketParticipant.mRID	EIC-Y code of the member state	EIC-Y code of the member state	EIC-Y code of the member state
	initialRegistration_DateAndOrTime.dateTime	Used	Used	Used

Class	Attribute	RCMU eligibility periods	RCMU allocated entry capacities	RCMU capacity obligations
	registration_DateAndOrTime.dateTime	Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is the same datetime)
	lastVerification_DateAndOrTime.dateTime	May be used when retrieving data	May be used when retrieving data	May be used when retrieving data
	primaryMarketParticipation_MarketObjectStatus.status	Optional A61: Primary market	Optional A61: Primary market	Optional A61: Primary market
	secondaryMarketParticipation_MarketObjectStatus.status	Optional A62: Secondary market	Optional A62: Secondary market	Optional A62: Secondary market
	capacityMechanism_MarketProduct.marketProductType	Mandatory only if market capacity mechanism product is registered A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism	Mandatory only if capacity mechanism product is registered A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism	Mandatory only if capacity mechanism product is registered A08: Market wide resource capacity mechanism A09: Strategic reserve resource capacity mechanism A10: Other resource capacity mechanism
	clearanceNumber_Names.name	Optional	Optional	Optional
	measurement_Unit.name	Not used	Not used	Not used
ElegibilityPeriod (Time_Period)	timeInterval	Used	Not used	Not used
Unit_RegisteredResource	mRID	Not used	Not used	Not used
	resourceCapacity.maximumCapacity	Not used	Not used	Not used
	resourceCapacity.unitSymbol	Not used	Not used	Not used
	technology_PSRType.psrType	Not used	Not used	Not used
	Fuel.fuel	Not used	Not used	Not used

Class	Attribute	RCMU eligibility periods	RCMU allocated entry capacities	RCMU capacity obligations
	street_Location.name	Not used	Not used	Not used
	streetNumber_Location.name	Not used	Not used	Not used
	city_Location.name	Not used	Not used	Not used
	postalCode_Location.name	Not used	Not used	Not used
	country_Location.name	Not used	Not used	Not used
	gPS_Location.gPS_CoordinateSystem.mRID	Not used	Not used	Not used
	gPS_Location.gPS_PositionPoints.xPosition	Not used	Not used	Not used
	gPS_Location.gPS_PositionPoints.yPosition	Not used	Not used	Not used
	gPS_Location.gPS_PositionPoints.zPosition	Not used	Not used	Not used
	marketEvaluationPoint.mRID (Linked to Unit_Registered Resource)	Not used	Not used	Not used
Measurements (Analog)	measurementType	Not used	Not used	Not used
	unitSymbol	Not used	Not used	Not used
	analogValues.value	Not used	Not used	Not used
Series_Period	timeInterval	Not used	Used	Used
	resolution	Not used	Delivery period	Delivery Period
Point	position	Not used	Used	Used
	quantity	Not used	Quantity	Quantity

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504 **4.6.6 RCMU History data**

505 Note: Time interval in header (MarketDocument class) shows the requested period of time.

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